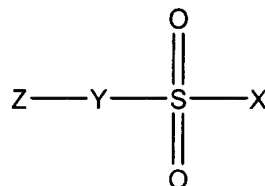


In the claims

1-33. (canceled)

34. (Currently amended) A coating comprising an effective amount of an anti-fouling compound of structure 1:



1

wherein

X represents -OH;

Y represents O;

Z represents an unsubstituted or substituted moiety selected from the group consisting of ~~branched alkyl, unbranched alkyl of 2-7 carbons, heteroalkyl, cycloalkyl, heterocycloalkyl,~~ aryl, heteroaryl, aralkyl, and heteroaralkyl, ~~and $(\text{CH}_2)_m\text{-R}_{80}$;~~ wherein when Z is substituted, any substituent is selected from the group consisting of halo, azido, alkyl, aralkyl, alkynyl, cycloalkyl, alkoxyl, nitro, imino, amido, silyl, alkylthio, sulfonyl, sulfonamido, acyl, formyl, heterocyclyl, aryl, heteroaryl, and trifluoromethyl;

~~R_{80} represents independently for each occurrence aryl, cycloalkyl, cycloalkenyl, heterocyclyl, or polycyclyl; and~~

~~— m is an integer in the range 0 to 8 inclusive or salt thereof,~~

wherein the coating releases the compound or a biologically active fragment thereof when in contact with a surface that is amenable to biofouling, wherein the coating is a vinyl, acrylic, resin, elastomeric, wax, polyester, acrylate, polyurethane, latex, fluoropolymer, or silicone coating.

35. **(canceled)**
36. **(canceled)**
37. **(Currently amended)** A coating of claim 34, wherein Z represents ~~an unsubstituted or substituted branched alkyl, unbranched alkyl of 2-7 carbons, aryl, or $(CH_2)_m R_{80}$.~~
38. **(Previously presented)** A coating of claim 34, wherein Z represents an unsubstituted or substituted alkylphenyl, heteroalkylphenyl, arylphenyl, or heteroarylphenyl.
39. **(Previously presented)** A coating of claim 34 wherein Z represents methyl, 4-(2-methylpropyl)phenyl, 4-(1,1-dimethylethyl)phenyl, 4-(1,1-dimethylpropyl)phenyl, 4-pentylphenyl, 4-(1-methyl-1-phenylethyl)phenyl, or 4-(1-methylheptyl)phenyl.
- 40-114. **(canceled)**